Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Currently Amended): A method for satellite positioning using positioning signals which are sent out by the various satellites of a satellite constellation under the control of a set of ground stations from which said satellites receive control signals, and which are available to be picked up by individual user receivers, which method consists essentially comprising:

- emitting, from said set of ground stations, periodically renewed direct transformation functions which are addressed respectively to each said-satellite of said satellite constellation and applying the direct transformation function received by each satellite to encode the positioning signals emitted therefrom;

- and further, upon each request from a user receiver addressed to a user servicing station, verifying that it-said user receiver has a right to a privileged-user status and, in the event that the verification is positive, addressing to said user receiver reverse transformation functions that are inverse to the direct transformation functions applied at the satellites from which it-said user receiver receives positioning signals, whereby said reverse transformation functions constitute an interpretation key for interpreting said positioning signals by applying said reverse transformation functions for decoding them.

Claim 2 (Currently Amended): The method as claimed in claim 1 comprising: a prior stage of registrating a mission declaration comprising a route plan to be followed by the user,

- and wherein each request from a user receiver calling for said interpretation key includes a copy of the latest coded positioning signals it-said user receiver has picked up from the satellites,

- and the verification of the privileged-user status comprises the sub-stages consisting in decoding the said coded positioning signals included in said request, in deducing therefrom the position of the receiver and in verifying that this position Is In conformity with the route plan.

Claim 3 (Original): The method as claimed in claim 1 further comprising a prior stage wherein an identifier is supplied to the user during a mission declaration by this user, and wherein said identifier is broadcast to various user servicing stations to which the said user receiver is likely to address a request calling for the interpretation key.

Claim 4 (Original): The method as claimed In claim 1, comprising priorly supplying an encryption code to the user during a mission declaration by this user, and wherein the user servicing station receiving said request uses said encryption code to send the interpretation key to the user receiver.

Claim 5 (Original): The method as claimed in claim 4, in which said encryption code is used for an authentication process carried out by the privileged-user receiver by comparison between the signal carrying the interpretation key received from the user servicing station in response to said request and said encryption code, the latter being known to the privileged user.

Claim 6 (Original): The method as claimed In claim 1, further comprising a preliminary stage of invoicing the user benefiting from the privileged-user status.

Claim 7 (Original): The method as claimed in claim 1 wherein, in order to ensure verification of authenticity and integrity of the positioning signals interpreted, a comparison is carried out by the privileged-user receiver between the signals received from the satellites and the signals received from the services station processing said request, in order thereby to verify the presence of the same specific fragment respectively accompanying the positioning signals sent out by each satellite and the interpretation key addressed to the user receiver in response to its request.

Claim 8 (Original): The method according to claim 1, further comprising:

- including, in each request calling for the interpretation key sent by said privilegeduser receiver, a copy of the latest positioning signals received by said receiver, in their transformed form,
- decoding at the ground stations the transformed positioning signals included in said request, and deducing the position of said receiver therefrom,
- calculating a degree of precision of said positioning signals as a function, of said deduced position and/or of the operational state of the system,
- and addressing to said receiver an information of the degree of precision thus calculated.

Claim 9 (Original): The method of claim 1 wherein each request originating from a plurality of user receivers includes a copy of the latest coded positioning signals received by the receivers, and further comprising decoding the transformed positioning signals included

among said plurality.

in each request, deducing therefrom the positions of the various corresponding receivers, end addressing to at least some of said user receivers a position Information relating to other users

Claim 10 (Original): The method of claim 1 wherein each request originating from a plurality of user receivers includes a copy of the latest coded positioning signals received by the receivers, and further comprising decoding the transformed positioning signals included in each request deducing therefrom the positions of the various corresponding receivers, and addressing to a traffic control service a position information relating to the position of at least some of said user receivers among said plurality.

Claim 11 (Original): The method of claim 1 wherein a basic interpretation key is delivered to any user having a right to at least a first degree of precision in interpreting the positioning signals, and a supplementary interpretation key granting access to a higher-level quality of service, especially via a better degree of precision, is reserved for the users having the benefit of a second privilege.

Claim 12 (Original): The method as claimed In claim 1, wherein each transformation function participating in the definition of the interpretation key is announced to the user servicing stations with an advance in time with respect to its application to the positioning signals sent out by the corresponding satellite.

Claim 13 (Original): The method as claimed in claim 1, wherein the request signal for the interpretation key sent cut by the user receiver and intended for a user servicing station comprises a copy of the positioning signals emitted from a plurality of satellites as

received by said user receiver, and wherein the signals thus recopied are processed by said user servicing station applying to them said interpretation key to determine the position of the said user receiver for use for recognition of the privileged-user status or for any other monitoring purpose.

Claim 14 (Original): The method as claimed in claim 13, further comprising acquiring again positioning signals by the user receiver from said plurality of satellites after reception of said interpretation key constituted by the set of relevant reverse transformation functions, and applying the letter to the positioning signals newly acquired, and deducing therefrom a new position information, thereby avoiding that movement of the receiver during the propagation of the signals and the processing of the requests result in reducing the precision of the position information.

Claim 15 (Currently Amended): A system for positioning by satellites in a security-protected system for assisted navigation, comprising

a constellation of orbitting satellites, each including means for emitting positioning signals deduced from control signals which they receive from a set of ground stations also in communication with each other,

wherein, for at least one user receiver having means for acquiring said positioning signals for use in interpreting them in order to calculate a position information, said user receiver further comprises emitting means for sending to said set of ground stations a request signal calling for an interpretation key which is necessary for it-said user receiver to have access to a privilege in using said positioning signals which is reserved for privileged users, and

wherein said set of ground stations comprises at least one user servicing station including receiving means for receiving said request, calculating means for verifying, using said request whether the user for said user-receiver possesses a privileged-user status allowing him to said privilege, and emitting means for addressing said interpretation key (33) to said receiver, in the event that the verification is positive.

Claim 16 (Currently Amended): A positioning system as claimed in claim 15, wherein each privileged-user receiver further comprises means for receiving the interpretation key addressed to it-user receiver from said services station in response to its request, and calculating means for combining said positioning signals with said interpretation key and deducing therefrom said position information.

Claim 17 (Original): A positioning system as claimed in claim 15, wherein said interpretation key consists of defined reverse transformation functions which are the inverse of direct transformation functions applied respectively by the various satellites within range of said user receiver for emitting the positioning signals sent therefrom.

Claim 18 (Original): A positioning system as claimed in claim 17, wherein a master station among said set of ground stations comprises:

- means for generating the direct transformation functions to be applied at said satellites for deriving said positioning signals and addressing them to the various satellites for which they are respectively intended, in addition to the usual control signals such as their orbital parameters and synchronization information,
- and means for calculating said reverse transformation functions and for broadcasting them any user servicing station within the system for using them in deriving and transmitting

the interpretation key necessary to each user receiver sending a request to that effect, subject to the verification that the corresponding user is allowed the privileged-user status.

Claim 19 (Currently Amended): A user receiver for use in a satellite-navigation system enabling to reserve an access privilege to privileged users In at least one geographical area covered by the system,

which, in addition to means for acquiring positioning signals from a plurality of satellites within its range, includes request emitting means for sending to a user servicing ground station a request signal calling for a key for interpreting said positioning signals, said key comprising reverse transformation functions for inversing direct transformation functions which are applied respectively by the various satellites in its range for emitting the positioning signals sent therefrom,

and which further includes calculating means for processing said positioning signals having undergone the direct transformation functions by applying to them the corresponding reverse transformation functions in said interpretation key once it has said positioning signals have been received, and for deducing therefrom a position information obtained by interpreting said positioning signals.

Claim 20 (Original): A user receiver as claimed in claim 19, comprising means for automatically repeating the emission of said request signal with a predefined periodicity.